

# 1040ST<sup>E</sup><sup>™</sup> Personal System



 **ATARI<sup>®</sup>**  
COMPUTER

## ST<sup>E</sup>—Personal Power

The personal computer is the single productivity tool that revolutionized information gathering and dissemination. Not to mention graphic design, audio technology in the recording and movie industries, publishing, as well as at-home reports, school assignments and record keeping—you name it. Nearly every area of our lives is affected by personal computers.

They are serious tools. Not toys. And Atari has been in the personal computer business since we got our feet wet in 1978 with the innovative 400™ and 800™ series.

Our roots in video games has made it easier for us to provide our computer customers with excitement, imagination and innovation in personal computer technology. And that's exactly what you'll find in our new ST<sup>E</sup>. Its cutting-edge features help you explore new vistas in computing. Features like the 4096-color palette, stereo digital sound, and a graphics coprocessor.

The ST<sup>E</sup> retains all the advances that made the original Atari ST so popular with imaginative computer users, such as a built-in Musical Instrument Digital Interface (MIDI), a built-in RF modulator with GENLOCK for receiving external video sources, plus parallel and serial ports for communicating with your industry standard peripherals and your peers.

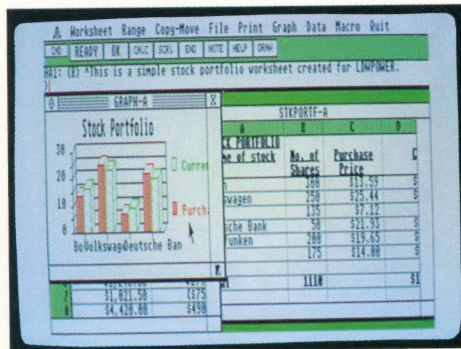
Equally important, the ST<sup>E</sup> offers a graphical user interface. Which nearly everyone now acknowledges is the most natural and intuitive way for humans to interact with computers. The ST<sup>E</sup> contains its friendly interface and the rest of the operating system in ROM on the motherboard. With the ST<sup>E</sup>'s operating system in ROM, your boot-ups are much faster, and your system information is less vulnerable than system information contained on a disk.

What's more, the Atari ST<sup>E</sup> boasts a broad range of software spanning home, classroom, and office applications. And yes, it's also a great platform for superb resolution video games.

So consider the personal computer that offers you the most personal advantages. As the ST<sup>E</sup> so amply demonstrates, when it comes to high technology, we're not just playing around.

## ST<sup>E</sup> Word Power

Whether it's a letter, a report, a school assignment, or a lengthy technical manual, the Atari ST<sup>E</sup> can handle it. There's a wide range of classic software available for any word processing task—from WordPerfect® to Microsoft® Write.



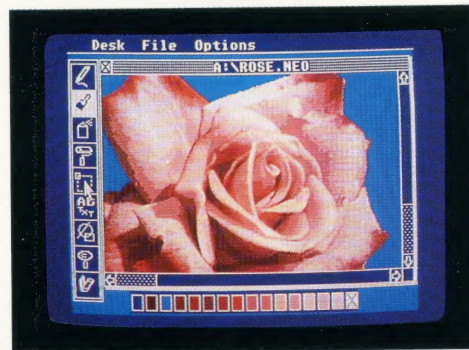
The high resolution monochrome monitor provides a flicker-free, crisp display that prevents eyestrain. Using your ST<sup>E</sup> is more like reading a book than trying to watch a TV!

Whether designing brochures, publishing magazines, or compiling an assignment or newsletter, the Atari ST<sup>E</sup> has the hardware and software to make you a desktop publishing professional.

With laser printer and high resolution monochrome support, your final copy will be crisp and professional. And DTP software for the ST<sup>E</sup> has more features than other computer's more expensive software.

## ST<sup>E</sup> Brain Power

With the ST<sup>E</sup> there are no system disks to keep track of, and that makes the ST<sup>E</sup> easy to use. There are also no obscure DOS commands to



learn, so you can be up and running without hours and hours of poring over tedious documentation. That leaves more time for your school work.

An extensive collection of fascinating and informative software is available to enhance your children's learning environment and keep them amused and



## ST<sup>E</sup> Entertainment—Power Play

Choose the show-stopping ST<sup>E</sup> if you want the most outlandish fun and excitement. With its rainbow of colors, stereo sound, and the ability to allow six players to simultaneously challenge one another, this machine wins hands down as the world's superstar gaming computer.

Its first-rate graphics and serious processing power, combined with brilliantly conceived game software, can take you on astonishing flights of fancy. Use the ST<sup>E</sup> to play the best in arcade classics, sports games, strategy games... or use your programming skills to design your own adventures.

## ST<sup>E</sup> Picture Power—Graphics and Desktop Video

Artists, graphic designers, architects, and business people can utilize the ST<sup>E</sup>'s power for generating highly complex images, designs, and presentations.

The ST<sup>E</sup>'s graphics coprocessor (BLITTER™ chip) handles graphic intensive CAD applications with speed and ease. The ST<sup>E</sup>'s 4096-color palette and crystal sharp, high-res display provide a personal video canvas to generate professional quality images full of hue and imagination. Paint a

stimulated for hours. A child's creative talents take wing, powered by the ST<sup>E</sup>'s state-of-the-art graphics and sound. The ST<sup>E</sup> gives your child a terrific head start in a high tech world.

## ST<sup>E</sup> Home Productivity Power

The ST<sup>E</sup>'s lightning processing speed and wealth of financial budgeting and checkbook management software makes it the perfect partner for managing your home finances. There's also a comprehensive diary and address book utility that's a pleasure to use.

An optional modem allows you to tap into information from news sources worldwide. With your ST<sup>E</sup>, you can shop and bank right from your living room!

## ST<sup>E</sup> Software—Power in Numbers

There are more than 4,000 software titles available for you to explore and use on your ST<sup>E</sup>. Stack them, one on top of the other, and they still won't reach the top of your imagination. The software exploration is limitless.

Key applications are WordPerfect, SuperBase Professional™, and LDW Power™. And don't forget Calamus®, Microsoft Write, and the many CAD and drawing programs. Existing software is easily acquired from the many Atari dealers, and we are continually adding more software developers to the Atari family.



picture and animate it. Create a corporate logo. Chart your company's quarter-to-quarter revenues. The ST<sup>E</sup> is also an excellent tool for desktop video. With the ST<sup>E</sup>, we think you'll get the picture!

Catch the multimedia computing wave with Atari. The ST<sup>E</sup> can accept external video sources (GENLOCKING), making it a cost-effective editing tool for the home or professional video producer.

With the ST<sup>E</sup>'s user-friendly software, you can put titles and graphics on home videos. Or create your own animated cartoons and record them on



video tape. This is an exciting application that is just now opening up to the personal computer user, and the only limitation is your imagination. Just think, you could be one of the developing influences of a new TV show craze: America's Best Home Animations!

## The Power and Magic of Music

Computer technology continues to be an invaluable tool in the creation and enjoyment of music. The Atari ST<sup>E</sup> has the most extensive and varied range of music software available. Coupled with built-in MIDI and ease-of-use, the ST<sup>E</sup> is the computer of choice for world-class musicians.

Digitally record and edit a musical session. Compose in concert with musical instruments, synthesizers, or even another MIDI-equipped computer.

Performers like Icehouse, Fleetwood Mac, The Pointer Sisters, The Beach Boys, Madonna, and Janet Jackson rely on the musical magic of Atari. And many other men and women who create today's music have realized that Atari's computer technology is a tool for sound as well as a sound tool.



## Architecture

- CPU: Motorola™ 68000 running at 8 MHz.
- Bus: 16-bit external; 32-bit internal; 24-bit address.
- RAM: Internally expandable to 4 MB; standard 512 Kbyte (520ST<sup>E</sup>™); 1024 Kbyte (1040ST<sup>E</sup>™).
- ROM: 256 Kbyte; 128 Kbyte external plug-in ROM.
- Supports horizontal and vertical hardware scrolling.
- Accepts external GENLOCK.
- Graphics coprocessor chip (BLITTER).

## Keyboard

- Standard QWERTY keyboard format.
- Low profile, sculptured ergonomic design.
- 94 keys; 10 function keys.
- Separate numeric and cursor keys.
- Keyboard processor to reduce CPU overhead.

## Mouse

- Supplied as standard.
- 2-button control.
- High precision, non-slip ball motion sensor.
- Removable ball for easy cleaning.

## Operating System

- TOS™ operating system entirely in ROM.



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Names of performers and musical groups are the property of their respective performers or group.  
C302081-001 Rev. A

## Productivity Power—

### The ST<sup>E</sup> Means Business

Today's business equation: versatility, flexibility, and performance equal maximum productivity. To work that equation, the Atari ST<sup>E</sup> provides the fastest processing speed of any computer in its class, and its memory can be easily expanded to 4 MB to accommodate today's RAM-hungry applications.

To boost your productivity, the ST<sup>E</sup> can use a high-resolution monochrome monitor for word or number processing, or a color monitor for design and presentation. The Atari ST<sup>E</sup> is disk format compatible with MS-DOS® platforms, so you can work with files created on either type of machine.

The ST<sup>E</sup> and its treasure trove of software help you deal with the challenges of doing business.

### That's the ST<sup>E</sup>!

The ST<sup>E</sup> is a lot of computer. But the best part is the personal power offered by the ST<sup>E</sup>. Features that are of immediate benefit to you, and that would cost you much more if you were to add them to other computers.

Sit down in front of an ST<sup>E</sup>, switch it on, and experience personal power for yourself—the essence of the ST<sup>E</sup>.

- Hierarchical file system with subdirectories and pathnames.
- Icon-based user interface, for self-explanatory command functions.
- Interface includes icons, multiwindowing, window resizing/repositioning/closing, and pull-down menus.
- VT52 terminal emulation desk accessory.

## Input/Output Ports

- All ports built-in.
- MIDI ports.
- Audio out: 2 x RCA jacks for left and right channels.
- Connector for color or monochrome monitor.
- Modem/RS232C serial port.
- Parallel printer port (8-bit parallel).
- External floppy disk drive port.
- External DMA port for hard disk, CD-ROM, and laser printer.
- Mouse/joystick (standard Atari connector).
- Controller/joystick/light gun ports: 2 x 15 pin high-density D connectors.
- Cartridge port (128 Kbyte capacity).
- Built-in RF modulator for connection to TV and VCR.
- Direct Memory Access (DMA).

## Graphics

- Includes graphics coprocessor.
- High resolution: 640 x 400 monochrome.
- Medium resolution: 640 x 200 4 colors.
- Low resolution: 320 x 200 16 colors.
- Color palette: 4096 colors.
- Text display: 80 column.
- Hardware horizontal and vertical scrolling on pixel basis.

## Sound and Music

- 5 programmable sound channels.
- Frequency programmable to 25 kHz.
- Stereo 8-bit digital sound.
- DMA sound engine: built-in 2-channel digital/analog converter (DAC); play back digitized samples at rates between 6 kHz and 50 kHz on 2 channels; programmable volume/tone control.
- Programmable sound generator (PSG): 3 tone generators; 2 noise generators; dynamic envelope shaping; wave shaping.
- Includes Musical Instrument Digital Interface (MIDI) for connection to music synthesizers, sequencers, drum boxes, and other devices with MIDI interfaces.

## Floppy Disk Drives

- 3.5-inch, double-sided, 720 Kbyte.
- MS-DOS format compatibility.

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# Atari<sup>®</sup> TT030<sup>™</sup>

The Atari TT030 is the ideal workstation for the creative or business professional. The TT030 features a Motorola<sup>™</sup> 68030 microprocessor operating at 32MHz with on-chip cache and memory management. Enhanced memory of 2 to 26 MB of RAM, and a wide range of video and storage options enable the TT030 to handle the most demanding applications. The TT030's 64-bit wide video memory provides amazingly fast screen redraws and the 68882 math coprocessor provides high-performance floating-point calculations. Built-in industry standard ports give the TT the right connections.

<b>SYSTEM ARCHITECTURE</b>	<ul style="list-style-type: none"> <li>• CPU: Motorola 68030 operating at 32 MHz.</li> <li>• Performance rating at 32 MHz yields 7.68 MIPS.</li> <li>• On-chip demand-paged memory management.</li> <li>• Separate on-chip 256-byte instruction and data caches (high-speed burst fillable).</li> <li>• Two internal independent address and data buses for increased parallel performance. Pipelined architecture.</li> <li>• BUS: 64-bit memory; 32-bit data; 32-bit address.</li> <li>• FPU: Motorola 68882 operating at 32 MHz.</li> <li>• Performance rating at 32 MHz yields 1.52 MFLOPS.</li> <li>• RAM: 2 MB video/system RAM with optional 2 or 8 MB expansion, optional 4 or 16 MB nybble-mode RAM; total system expandable to 26 MB.</li> <li>• ROM: 512 Kbyte internal; 128 Kbyte external plug in ROM.</li> </ul>
<b>EXPANSION BUS</b>	<ul style="list-style-type: none"> <li>• VMEbus architecture. Single VME Eurocard (3U) internal slot.</li> <li>• A24/D16 and A16/D16 slave-only interface.</li> </ul>
<b>GRAPHICS</b>	<ul style="list-style-type: none"> <li>• TT high resolution: 1280 x 960 monochrome.</li> <li>• TT medium resolution: 640 x 480 16 colors.</li> <li>• TT low resolution: 320 x 480 256 colors.</li> <li>• Color palette: 4096 colors.</li> </ul>
<b>SOUND</b>	<ul style="list-style-type: none"> <li>• Digital stereo DMA sound with built-in 2-channel digital-to-analog converter.</li> <li>• Programmable sound generator with 3 tone and 2 noise voices.</li> </ul>
<b>STANDARD PORTS</b>	<ul style="list-style-type: none"> <li>• SCSI port with Direct Memory Access (DMA).</li> <li>• 1 high-speed DMA serial port or LocalTalk®-compatible LAN port.</li> <li>• Connector for analog RGB color, or ECL high-resolution monitor.</li> <li>• External DMA port for hard disk, CD-ROM, and laser printer.</li> <li>• 2 modem/RS232C serial ports.</li> <li>• 1 RS232C serial port capable of split baud rates.</li> <li>• Parallel printer port (8-bit parallel).</li> <li>• External floppy disk drive port.</li> <li>• Cartridge port (128 Kbyte capacity).</li> <li>• MIDI IN / MIDI OUT.</li> <li>• Audio out: 2 RCA jacks for left and right stereo channels.</li> </ul>
<b>DATA STORAGE</b>	<ul style="list-style-type: none"> <li>• 3.5-inch double-sided 720 Kbyte floppy disk drive.</li> <li>• MS-DOS® format compatibility.</li> <li>• Internal hard drive with embedded SCSI controller.</li> <li>• Standard 48.6 MB with 28 ms average seek time.</li> <li>• Optional 83.9 MB with 20 ms average seek time.</li> <li>• Up to 1.5 MB per second external transfer rate.</li> </ul>
<b>USER INTERFACE</b>	<ul style="list-style-type: none"> <li>• Standard QWERTY keyboard format. Low profile, sculptured ergonomic design.</li> <li>• 94 keys; 10 function keys. Separate numeric and cursor keypads.</li> <li>• Keyboard processor to reduce CPU overhead.</li> <li>• 2-button mouse supplied as standard.</li> </ul>
<b>SYSTEM SOFTWARE</b>	<ul style="list-style-type: none"> <li>• TOS operating system in ROM.</li> <li>• Hierarchical file system with subdirectories and pathnames.</li> <li>• Icon-based graphical user interface, with self-explanatory command functions.</li> <li>• Multiple windowing interface includes icons and drop-down menus.</li> <li>• NewDesk™ desktop and Control Panel can be customized by user.</li> </ul>
<b>PERIPHERALS</b>	<ul style="list-style-type: none"> <li>• TTM194 Monitor: 1280 x 960 monochrome.</li> <li>• PTC1426 Monitor: 640 x 480; 16 colors, 320 x 480; 256 colors.</li> <li>• SLM605 Laser Printer: 300 dpi. 6ppm.</li> </ul>
<b>PHYSICAL SPECIFICATIONS</b>	<ul style="list-style-type: none"> <li>• Dimensions: 3.54 in.(h) x 19.29 in.(w) x 11.41 in.(d).</li> <li>• Weight: 22 lbs.</li> <li>• Power Consumption: 95 watts maximum.</li> <li>• Environment: 41 to 113 degrees F, 20 to 80 percent RH.</li> </ul>

**Professional Systems Group**

A Division of Atari Computer Corporation

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